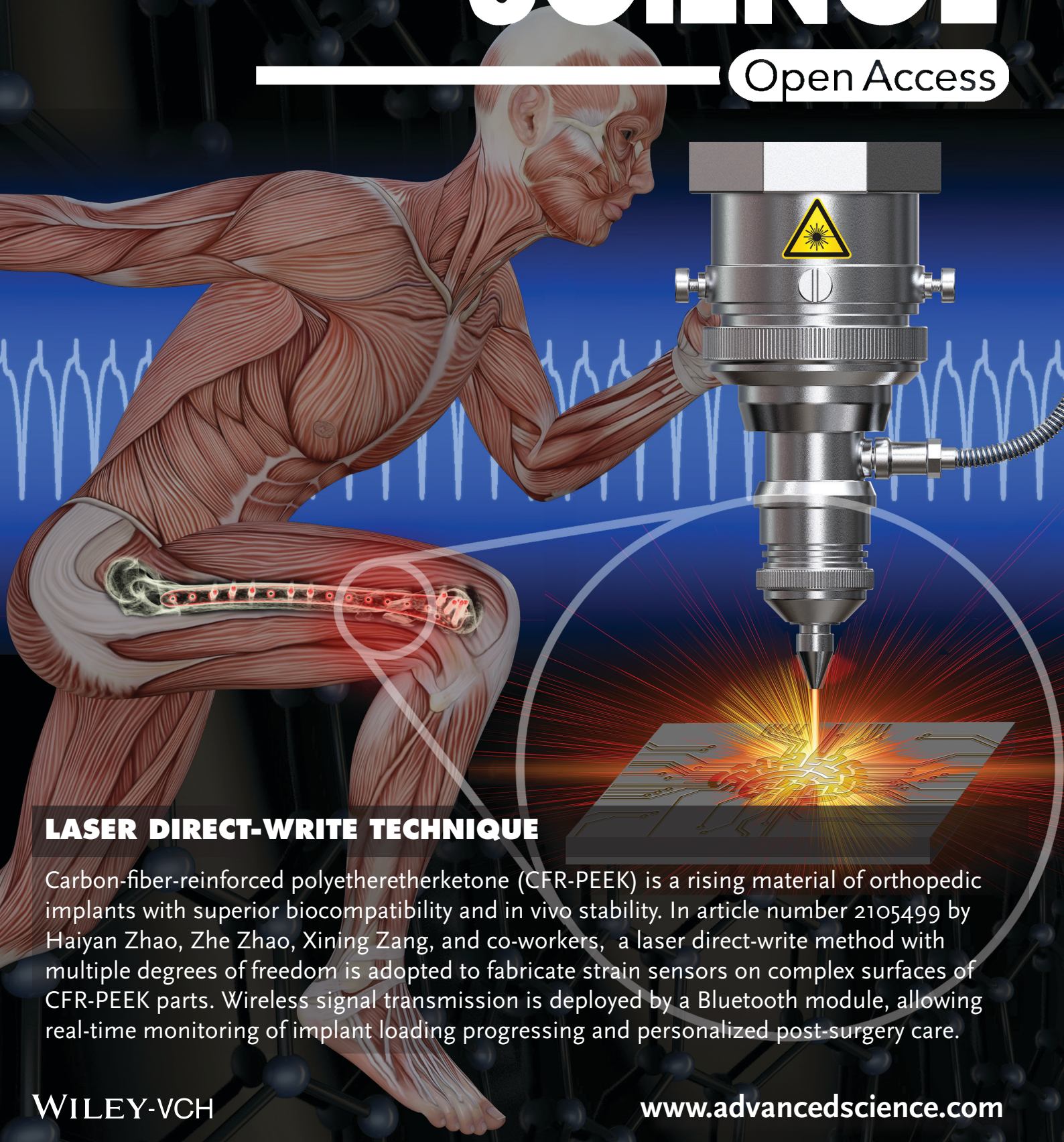


ADVANCED SCIENCE

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LASER DIRECT-WRITE TECHNIQUE

Carbon-fiber-reinforced polyetheretherketone (CFR-PEEK) is a rising material of orthopedic implants with superior biocompatibility and in vivo stability. In article number 2105499 by Haiyan Zhao, Zhe Zhao, Xining Zang, and co-workers, a laser direct-write method with multiple degrees of freedom is adopted to fabricate strain sensors on complex surfaces of CFR-PEEK parts. Wireless signal transmission is deployed by a Bluetooth module, allowing real-time monitoring of implant loading progressing and personalized post-surgery care.